



{In Archive} Preliminary Aquifer Flow Analysis for Goliad Project

Jose Torres to: bknape

12/09/2008 07:23 PM

Cc: Philip Dellinger, Ray Leissner

From: Jose Torres/R6/USEPA/US

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Hello Mr. Ben:

Attached herein are several preliminary computer runs intended to provide a rough estimate for the effect of water supply wells on the Goliad aquifer in the area of the proposed UEC in-situ mining operations, based on several estimated and anticipated rock properties.

These computations use sand thicknesses estimated from the logs provided by the operator, and an initial permeability value of 2700 md, estimated from information in the TWDB paper that I referred to in a previous e-mail. Runs for assumed permeability values of 1000 md and 500 md are also enclosed. The water production rate for these runs was assumed to be 100 GPM. I also performed test runs using 50 GPM.

All runs showed that, under the simulated conditions, the initial aquifer pressure can still be driven down at distances of a quarter of a mile, or greater, as a result of production from water supply wells. I would appreciate it if members of your staff could provide similar runs using the same input data into the PRESS2 program for comparison purposes.

Thank you very much for your attention in this matter. Sincerely,

Jose Eduardo Torres - 6WQ-SG
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